DEAKIN UNIVERSITY | Lancaster University

INDONESIA

Bachelor of Business Analytics/Bachelor of Science (Honours) Business Analytics

DLI Provisional Program and Module Handbook

2025/26

Contents

Program Information

Year	**2025/26**
Award Granted	Bachelor of Business Analytics and Bachelor of Science (Honours) Business Analytics
Program title	Bachelor of Business Analytics and Bachelor of Science (Honours) Business Analytics
Campus	Bandung
Program Duration	3 Years

Program Map

Your program map is available via the Student Portal.

Program Overview

Bachelor of Science (Honours) Business Analytics – Lancaster University

The purpose of this program is to provide graduates with a strong foundation in a range of analytics techniques that can help organisations to reach well-informed decisions. The modules taught on the program have a practical focus, as the aim is to provide preparation for a wide range of careers.

The program helps students become proficient in using a range of analytical tools and techniques and to acquire problem-solving skills. The program also seeks to develop the professional skills that are needed to implement ideas and strategies.

Bachelor of Business Analytics – Deakin University

Launch a career in the booming world of business insights with Deakin's Bachelor of Business Analytics, now available in Bandung through Deakin Lancaster Indonesia (DLI). This unique joint initiative between Deakin University, Lancaster University and Navitas offers you a world-class education delivered locally, blending the strengths of both universities with the convenience of studying close to home.

You will become a confident business analytics translator capable of unlocking innovative solutions for businesses using data insights. Delivered in English and aligned with the Bandung academic calendar, this program combines Deakin’s industry-leading curriculum with Indonesian National Subjects, giving you a truly global and local education experience.

You will develop practical commercial skills to interpret data and information, creating solutions that drive business performance. Work on projects, practice with the analysis tools used by professionals, and gain industry experience translating insights into impact. The strategic input of our industry partners, including IBM, Deloitte, and PwC, ensures program content stays current and aligned with the needs of business today and tomorrow.

You will gain an understanding of how organisations structure information architecture and how technology can enhance processes, products, and services by practicing with state-of-the-art data management and analytics tools

Through your program studies, you will develop critical thinking and analysis skills in topics such as:

- Artificial intelligence
- Business intelligence and data warehousing
- Data analysis
- Information architecture
- Information security and governance
- Planning commercial systems
- Processes and workflows
- Professional and business ethics
- Project management

Learn to find meaning and extract value from data by applying creativity to practical problems. We will equip you with strong data analysis skills and teach you how to apply problem-solving and creative thinking to meet the needs of business, science, and society.

Grow your professional network before you graduate and gain valuable experience through work-integrated learning opportunities, including community-based volunteering, team projects, and business internships. Plus, our world-class business analytics program is taught by teachers who are active professionals, giving you access to the latest industry knowledge.

Discover how studying through DLI in Bandung can give you the same quality education as students at Deakin and Lancaster's home campuses, with the added benefit of learning locally.

Program learning outcomes

Bachelor of Science (Honours) Business Analytics – Lancaster University

On successfully completing this programme you will be able to:

- Demonstrate a critical understanding of the business context in which analytics can be applied, and a knowledge of business operations;
- Identify the essentials of problems and structure them in an appropriate mathematical or logical form, to facilitate their analysis;
- Demonstrate knowledge of sources of data and techniques of data handling, analysis and interpretation;
- Demonstrate knowledge and understanding of developments in descriptive, predictive and prescriptive analytics;
- Identify and employ a range of analytical techniques, software and programming tools to model and solve business problems;
- Apply project management principles to the development and execution of business models;
- Communicate professionally with a range of audiences in business or organisational contexts, including those with a limited background in business analytics;
- Deliver analytics projects and solutions, individually and in teams, in realistic problem situations, with due regard to ethical considerations.

Bachelor of Business Analytics – Deakin University

Deakin Graduate Learning Outcomes	Program Learning Outcomes
Discipline-specific knowledge and capabilities	Develop and apply broad and coherent knowledge of the foundation theories, concepts and practice of business analytics within organisational or social settings.
Communication	Communicate ideas and concepts, with consideration to impacts and outcomes, to specialist and non-specialist audiences (using appropriate tools, technologies and techniques).
Digital literacy	Use appropriate business analytics technologies to collect, evaluate and analyse information relevant to organisational or social settings.
Critical thinking	Apply critical and creative thinking skills in a variety of business analytics settings.
Problem solving	Identify and model problems and articulate broad business analytics solutions related to authentic situations in organisational or social settings.
Self-management	Demonstrate intellectual independence and reflect on self performance to identify and plan future professional development.
Teamwork	Work collaboratively in diverse teams to produce and share business analytics solutions to problems in organisational or social settings.
Global citizenship	Apply ethical frameworks and principles in the development and deployment of business analytics solutions to meet stakeholder needs.

Workload/Study Commitment

Trimester and other key dates for the academic year are in the important dates section on the DLI website. Students will on average spend 150 hours for each standard module (15 credit points) undertaking the teaching, learning and assessment activities for this program.

You can expect to participate in a range of teaching and learning activities each week. This could include lectures, seminars, practicals and online interaction. More details are provided in the information provided for each module.

Career Opportunities

Bachelor of Science (Honours) Business Analytics – Lancaster University

Business Analytics is one of the most important areas of modern business as the volume of data both created and employed increases. As a business data analyst, students will play a key role in ensuring organisations achieve real impact from analytics initiatives.

This program will equip students to manage and interrogate data, be that in operations or logistics and supply chain management. We believe that graduates of this program will be highly sought after by employers in Indonesia and beyond, as our graduates will have the business mindset and practical experience needed to meet employers' needs. We expect our graduates to be able to fill a variety of roles including Business Analysts, Quantitative analysts, Operational Research analysts and Market Researchers.

Bachelor of Business Analytics – Deakin University

As a business data analyst, you will play a key role ensuring organisations achieve real impact from analytics initiatives. You will have the business mindset and practical experience needed to meet this demand. You'll be set up for success in a variety of roles including:

- Artificial Intelligence Specialist
- Big Data Engineer
- Business Analytics Translator
- Business Analyst
- Business Intelligence Specialist
- Computer System Analyst
- Data Analyst
- Digital Transformation Consultant
- Information Analyst
- Information Manager/Officer
- Market Analyst
- Predictive Modeller
- Social Media Analyst

Participation requirements

Reasonable adjustments to participation and other course requirements will be made for students with a disability.

Modules in this course may have participation requirements that include compulsory placements, work-based training, community-based learning or collaborative research training arrangements. Placement can occur at any time, including during standard holiday breaks.

For more information, please contact Student and Academic Services. Email: studentsupport@dli.ac.id

Program Completion rules/Program Structure

To complete the Bachelor of Business Analytics/Bachelor of Science (Honours) Business Analytics students must pass 420 Deakin Lancaster Indonesia credit points and meet the following program rules to be eligible to graduate:

This is a 3-year undergraduate program. The program takes modules directly from the equivalent Lancaster program and combines them with modules from a Deakin program to create a single, joint study program that satisfies the learning outcomes of both individual programs.

Information is accurate at the time of publication and may change in response to ongoing program review and improvement.

DAI001 Academic Integrity and Respect Module (0-credit-point compulsory module) in their first study period

210 credit points of core modules (Deakin)

210 credit points of core modules (Lancaster)

4 Indonesian National Subjects (0 credit points; delivered by Telkom University; mandatory for Indonesian students only)

Year 1

- DAI001 Academic Integrity and Respect Module (0-credit point compulsory module)
- MSCI102 Introduction to Operations Management
- MSCI151 Tools and Techniques for Business Analytics
- MIS171 Business Analytics
- MIS140 Machine Learning for Business
- MIS203 Managing Information in the Digital Age
- MIS202 Managing Data and Information
- Indonesian national subjects
    - Civics Education
    - Indonesian language
    - Pancasila
    - Religion (Various)

Year 2

- MSCI222 Optimisation
- MSCI203 Digital Business and Organisational Transformation
- MSCI224 Techniques for Management Decision Making
- MSCI252 Consultancy Skills
- MIS271 Business Intelligence and Data Warehousing
- MIS231 Professional Ethics in the Digital Age
- MIS211 Cyber Security and Governance
- MIS272 Predictive Analytics
- MSCI242 Spreadsheet Modelling for Management
- MIS398 Project Management

Year 3

- MSCI391 Business Analytics Project
- MSCI352 Project Management: Negotiation & Decision Support
- MSCI223 Business Modelling and Simulation
- MIS362 Social Media Analytics and Data Driven Innovation
- MIS384 Marketing Analytics
- MIS313 Strategic Supply Chain Management
- MIS373 Artificial Intelligence for Business
- MSCI342 Advanced Spreadsheet Modelling
- MWL305 Business for Social Impact

Work Experience

This program provides students the opportunity to complete the work integrated learning module, MWL305 Business for Social Impact which will provide you with the opportunity to develop your professional networks and work practices while completing your program.

Further information

Contact Student and Academic Services for assistance in program planning and explaining program rules and requirements. Email: studentsupport@dli.ac.id

Standard fee information disclaimer

Fees and charges vary depending on the type of fee place you hold, your course, your commencement year, the modules you choose to study, and their study discipline or your study load.

Fees are reviewed annually and may be increased to reflect increases in cost of delivery of the programs in line with increases in the consumer price index and to reflect changes required by regulatory, professional, or academic bodies resulting in additional costs. All fees quoted are in Indonesian Rupiah (IDR). Tuition fees do not include textbooks, computer equipment or software, other equipment or costs such as mandatory checks, travel and stationery.

Estimate your fees

For further information regarding tuition fees, other fees and charges, invoice due dates, withdrawal dates, payment methods visit our current students website.

Bachelor of Business Analytics and Bachelor of Science (Honours)/Bachelor of Business Analytics

Module Information

2025/26

DAI001 Academic Integrity and Respect	
Year	2025-26
Credits	0
Enrolment Mode	All modules are delivered at Deakin Lancaster Indonesia campus.
EFTSL Value	0.000 (EFTSL stands for Equivalent Full-Time Student Load. It is a measure used to calculate a full-time student's annual study load.)
Module Chair	Prana Sudhana
Module Rules	n/a
Scheduled Learning Activities	Learning experiences are via the module site (approximately 3 hours). There are no compulsory on-campus learning activities scheduled.

Module Content

The Academic Integrity and Respect module is a compulsory zero-credit point module. The module's learning and assessment activities allow students to develop knowledge and skills to maintain academic integrity in their studies and career and safe, respectful relationships within and beyond University.

Module Learning Outcomes

MLO	These are the Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Alignment to Deakin Graduate Learning Outcomes (GLOs)
MLO1	Apply the values of academic integrity - honesty, trust, fairness, respect and responsibility.	GLO1: Discipline-specific knowledge and capabilities GLO6: Self-management
MLO2	Identify acceptable and unacceptable behaviours related to acting with academic integrity.	GLO4: Critical thinking
MLO3	Apply knowledge of appropriate strategies to act with academic integrity.	GLO1: Discipline-specific knowledge and capabilities
MLO4	Identify the characteristics of safe, healthy and respectful relationships and where to seek support for self or others who have experienced harm.	GLO6: Self-management

Assessment

Assessment Description	Student output	Grading and weighting	Indicative due week

		(% total mark for module)	
Online Multiple-Choice Questions Quiz	30-minute online quiz	100%	Week Four

The assessment due weeks provided may change. The Module Chair will clarify the exact assessment requirements, including the due date, at the start of the teaching period.

Hurdle requirement
To be eligible to obtain a pass in this module, students must achieve a minimum mark of 85% on the quiz. Students are allowed unlimited attempts of the quiz.

Learning resources
All resources will be found in the module site.

Standard fee information disclaimer
This is a zero credit point module, there are no fees for this module.

MSCI 102 Introduction to Operations Management	
Year	2025-26
Credits	20
Enrolment Mode	All modules are delivered at Deakin Lancaster Indonesia campus.
EFTSL Value	N/A
Module Chair	Prana Sudhana
Module Rules	Pre-requisites: Nil Hurdle requirements: Nil
Scheduled Learning Activities	X
Workload/Study Commitment	Students will on average spend 200 hours over the teaching period undertaking the teaching, learning and assessment activities for this module. This will include educator guided online learning activities within the module site.

Module Content

Operations Management is a core managerial discipline for all kinds of organisations, from private sector manufacturing through to public sector services. This course introduces you to the role of operations managers, covering a range of topics including: operations design, capacity planning and control, supply chain management, inventory, forecasting, and quality management.

Module Learning Outcomes

Part of this subject is analytical: being able to formalise, measure and understand operations management problems, such as congestion, under-capacity, and operational failure. Part of it is constructive: being able to plan and design production and service processes. The course reflects this combination and includes both qualitative and quantitative methods.

By the end of the course, you should be able to:

- Apply basic planning and analysis techniques to particular cases;
- take account of the assumptions made by such techniques and their limitations;
- understand characteristic operations problems and improvement methods.

Assessment

A1: Exam, 50%
A2: Coursework, 50%

Learning Resources

Library resources to support your learning will mainly be electronic and will be accessed using your DLI IT account login. Specific resources for a module are identified in an electronic reading list (we call them Resource Lists at Lancaster) that is accessed via the Moodle site for this module.

A subject guide will provide guidance on a wider range of resources for your subject area, and you can search for and access all electronic library resources available to you via the OneSearch library search tool. Links to the subject guide and to OneSearch are also available on Moodle sites.

Standard fee information disclaimer

Fees and charges vary depending on the type of fee place you hold, your course, your commencement year, the modules you choose to study, and their study discipline or your study load.

Fees are reviewed annually and may be increased to reflect increases in cost of delivery of the programs in line with increases in the consumer price index and to reflect changes required by regulatory, professional, or academic bodies resulting in additional costs. All fees quoted are in Indonesian Rupiah (IDR). Tuition fees do not include textbooks, computer equipment or software, other equipment or costs such as mandatory checks, travel and stationery.

Estimate your fees

For further information regarding tuition fees, other fees and charges, invoice due dates, withdrawal dates, payment methods visit our current students website.

MSCI151 Tools for Techniques for Business Analytics	
Year	2025-26
Credits	40
Enrolment Mode	All modules are delivered at Deakin Lancaster Indonesia campus.
EFTSL Value	N/A
Module Chair	Rayenda Brahmana
Module Rules	Pre-requisites: Nil Hurdle requirements: Nil
Scheduled Learning Activities	Total contact hours per week: 3 hours Lecture hours per week: 2 hours No. of separate lectures per week: 2 Seminar/workshop/lab hours per week: 1 hour every 2nd week No. of separate seminars/workshops/labs per week: 1 Seminar/workshop/lab room requirements: 2 hour computer lab each week
Workload/Study Commitment	Students will on average spend 400 hours over the teaching period undertaking the teaching, learning and assessment activities for this module. This will include educator guided online learning activities within the module site.

Module Content

Business Analytics utilises skills from a number of disciplines. Management Science (also known as Operational Research) is used in all major organisations in industry, commerce, finance and government. Its application might involve well-defined problems, like reducing the cost of a complex goods distribution network, or more nebulous problems, such as improving the care of patients in hospital. Implementation can also involve specialised software or bespoke programs.

The techniques of Management Science, based on mathematics, statistics, analytics and computing, can be extremely powerful in helping to solve these organisational problems and are widely used in practice. This module explains the business situations in which such techniques apply and shows how to use the techniques and interpret the results to make better business decisions. Techniques are introduced through a mix of lectures, computer workshops and tutorials at which tutors can give extra help. The techniques introduced include decision analysis, simulation, queueing analysis, computer algorithms and linear programming. To support development, students are introduced to probability and probability distributions and gain familiarity with useful computer tools such as Excel and Python programming.

In this module, students work on two challenging case studies based on real problems. These provide the opportunity to apply the concepts and techniques of problem solving, making recommendations and reporting results. There is a stress on practical examples of using the techniques. The module lays the foundation for learning more advance techniques later in their degrees and emphasises not only how to apply techniques, but also when (and when not) to apply them.

Module Learning Outcomes

By the end of the module, you should:

- be able to apply the taught techniques to particular cases;
- know how and when to apply some specific quantitative techniques;
- be aware of the power and limitations of the techniques when addressing issues and problems in organisations;
- understand the fundamental concepts of computer programming;
- be able to use Python to model and solve different computational problems;
- be able to implement models on a spreadsheet.

By the end of the module you should have acquired:

- Problem structuring and problem-solving skills
- Analytical skills
- Report writing skills
- Presentation skills

Assessment

A1: Exam, 30%
A2: Coursework, 70%

Learning Resources

Library resources to support your learning will mainly be electronic and will be accessed using your DLI IT account login. Specific resources for a module are identified in an electronic reading list (we call them Resource Lists at Lancaster) that is accessed via the Moodle site for this module.

A subject guide will provide guidance on a wider range of resources for your subject area, and you can search for and access all electronic library resources available to you via the OneSearch library search tool. Links to the subject guide and to OneSearch are also available on Moodle sites.

Standard fee information disclaimer

Fees and charges vary depending on the type of fee place you hold, your course, your commencement year, the modules you choose to study, and their study discipline or your study load.

Fees are reviewed annually and may be increased to reflect increases in cost of delivery of the programs in line with increases in the consumer price index and to reflect changes required by

regulatory, professional, or academic bodies resulting in additional costs. All fees quoted are in Indonesian Rupiah (IDR). Tuition fees do not include textbooks, computer equipment or software, other equipment or costs such as mandatory checks, travel and stationery.

Estimate your fees

For further information regarding tuition fees, other fees and charges, invoice due dates, withdrawal dates, payment methods visit our current students website.

MIS171 Business Analytics	
Year	2025-26
Credits	**15**
Enrolment Mode	All modules are delivered at Deakin Lancaster Indonesia campus.
EFTSL Value	0.125 (EFTSL stands for **Equivalent Full-Time Student Load.** It is a measure used to calculate a full-time student's annual study load).
Module Chair	Rayenda Brahamana
Module Rules	Prerequisite: Nil Corequisite: Nil Incompatible with: Nil
Scheduled Learning Activities	1 x 1 hour on-campus lecture and 1 x 2 hour on-campus practical experience (computer practical) each week
Workload/Study Commitment	Students will on average spend 150 hours over the teaching period undertaking the teaching, learning and assessment activities for this module. **This will include educator guided online learning activities within the module site.**

Module Content

The digital revolution has changed the practice of business. Data to support business decisions (data collected by business systems as well as through the Internet and social media such as Facebook and Twitter) are growing exponentially and becoming increasingly difficult to understand and use. Business Analytics is the broad use of quantitative reasoning skills in business decision making. Business Analytics helps managers to solve complex business problems, improve business performance, anticipate and plan for change while managing and balancing risks. This module will provide students with the analytical knowledge and skills to explore data to find patterns and relationships in data; assess uncertainty and risk of business decisions; evaluate decisions; and forecast and predict trends.

Module Learning Outcomes

MLO	These are the Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Alignment to Deakin Graduate Learning Outcomes (GLOs)
MLO1	Apply quantitative reasoning skills to analyse business problems.	GLO1: Discipline-specific knowledge and capabilities

MLO	These are the Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Alignment to Deakin Graduate Learning Outcomes (GLOs)
MLO2	Create data-driven / fact-based solutions to complex business scenarios.	GLO5: Problem solving
MLO3	Analyse business performance by implementing contemporary data analysis tools.	GLO3: Digital literacy
MLO4	Interpret findings and effectively communicate solutions to business problems.	GLO2: Communication

Assessment

Assessment Description	Student output	Grading and weighting (% total mark for module)	Indicative due week
Assessment 1: (Individual) Data Visualisation (creating a dashboard)	Data analysis file	20%	Week 5
Assessment 2: (Individual) Case Study: Data analysis with written report (Analytical)	Data analysis file plus 1000 words	40%	Week 8
Assessment 3: (Individual) Case Study: Data analysis with written report (Analytical)	Data analysis file plus 1000 words	40%	Information not yet available

The assessment due weeks provided may change. The Module Chair will clarify the exact assessment requirements, including the due date, at the start of the teaching period.

Learning Resources

Library resources to support your learning will mainly be electronic and will be accessed using your DLI IT account login. Specific resources for a module are identified in an electronic reading list (we call them Resource Lists at Lancaster) that is accessed via the Moodle site for this module.

A subject guide will provide guidance on a wider range of resources for your subject area, and you can search for and access all electronic library resources available to you via the OneSearch library search tool. Links to the subject guide and to OneSearch are also available on Moodle sites.

Standard fee information disclaimer

Fees and charges vary depending on the type of fee place you hold, your course, your commencement year, the modules you choose to study, and their study discipline or your study load.

Fees are reviewed annually and may be increased to reflect increases in cost of delivery of the programs in line with increases in the consumer price index and to reflect changes required by regulatory, professional, or academic bodies resulting in additional costs. All fees quoted are in

Indonesian Rupiah (IDR). Tuition fees do not include textbooks, computer equipment or software, other equipment or costs such as mandatory checks, travel and stationery.

Estimate your fees

For further information regarding tuition fees, other fees and charges, invoice due dates, withdrawal dates, payment methods visit our current students website.

MIS140 Introduction to Machine Learning for Business	
Year	2025-26
Credits	15
Enrolment Mode	All modules are delivered at Deakin Lancaster Indonesia campus.
EFTSL Value	0.125 (EFTSL stands for **Equivalent Full-Time Student Load**. It is a measure used to calculate a full-time student's annual study load).
Module Chair	Farah Farizi
Module Rules	Prerequisite: N/A Corequisite: N/A Incompatible with: SIT112
Scheduled Learning Activities	1 x 1.5 hour lecture and 1 x 1.5 hour seminar each week.
Workload/Study Commitment	Students will on average spend 150 hours over the teaching period undertaking the teaching, learning and assessment activities for this module.

Module Content

The overarching aim of this module is to provide students with a strong foundation on machine learning and data analytics, required by business professionals. The module will introduce business students to fundamental concepts in data analytics, machine learning and their applications in business context. Students will also be introduced to popular software packages for data analytics in Python programming platforms. Through this module, students will be provided with foundational knowledge and skills to prepare themselves for more advanced analytics and Artificial Intelligence techniques for business applications in the subsequent advanced modules. Students will be able to explain and apply data science concepts and develop analytical solutions to business problems and interpret the outcomes to the various stakeholders.

Module Learning Outcomes

MLO	These are the Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Alignment to Deakin Graduate Learning Outcomes (GLOs)
MLO1	Apply appropriate data processing techniques and report insights.	GLO1: Discipline-specific knowledge and capabilities GLO3: Digital literacy GLO5: Problem solving
MLO2	Select and apply machine learning techniques to solve business problems and evaluate model performance.	GLO1: Discipline-specific knowledge and capabilities

MLO	These are the Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Alignment to Deakin Graduate Learning Outcomes (GLOs)
		GLO3: Digital literacy GLO5: Problem solving
MLO3	Explain the application of machine learning and interpret the outcomes to the various stakeholders.	GLO2: Communication GLO3: Digital literacy

Assessment

Assessment Description	Student output	Grading and weighting (% total mark for module)	Indicative due week
Assessment 1: (Individual) Case study: Data analysis with Written Report (Analytical)	Python code + 800 words	30%	Week 5
Assessment 2: (Individual) Case study: Data analysis with Written Report (Analytical)	Python code + 1000 words	35%	Week 9
Assessment 3: (Individual) Case study: Written Report (Business)	Python code + 1500 words	35%	Information not yet available

Learning Resources

Library resources to support your learning will mainly be electronic and will be accessed using your DLI IT account login. Specific resources for a module are identified in an electronic reading list (we call them Resource Lists at Lancaster) that is accessed via the Moodle site for this module.

A subject guide will provide guidance on a wider range of resources for your subject area, and you can search for and access all electronic library resources available to you via the OneSearch library search tool. Links to the subject guide and to OneSearch are also available on Moodle sites.

Standard fee information disclaimer

Fees and charges vary depending on the type of fee place you hold, your course, your commencement year, the modules you choose to study, and their study discipline or your study load.

Fees are reviewed annually and may be increased to reflect increases in cost of delivery of the programs in line with increases in the consumer price index and to reflect changes required by regulatory, professional, or academic bodies resulting in additional costs. All fees quoted are in Indonesian Rupiah (IDR). Tuition fees do not include textbooks, computer equipment or software, other equipment or costs such as mandatory checks, travel and stationery.

Estimate your fees

For further information regarding tuition fees, other fees and charges, invoice due dates, withdrawal dates, payment methods visit our current students website.

MIS203 Managing Information in the Digital Age	
Year	2025-26
Credits	15
Enrolment Mode	All modules are delivered at Deakin Lancaster Indonesia campus.
EFTSL Value	0.125 (EFTSL stands for **Equivalent Full-Time Student Load**. It is a measure used to calculate a full-time student's annual study load).
Module Chair	Prana Sudhana
Module Rules	Prerequisite: nil Corequisite: nil Incompatible with: nil
Scheduled Learning Activities	1 x 1 hour on campus lecture and 1 x 2 hour seminar each week.
Workload/Study Commitment	Students will on average spend 150 hours over the teaching period undertaking the teaching, learning and assessment activities for this module. This will include educator guided online learning activities within the module site.

Module Content

Our world is now a world of information. On the one hand this makes many things easier, fun or even possible but on the other it can cause us to be overloaded with information and distracted by our constant connections. In this module we look at how we might manage better and use information and connections in business, at work and in everyday life.

The module begins by considering the changes that the digital world has made to our lives and how we live in a world immersed in information and social media. We then look at how we can search and analyse information and utilise social media for business, learning and collaboration. We then look at how information can be used to assist people but also to monitor and manage people at work and at home. Finally, we consider how to use ICT in a more secure manner.

Module Learning Outcomes

MLO	These are the Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Alignment to Deakin Graduate Learning Outcomes (GLOs)
MLO1	Manage, use and evaluate information for personal, professional and business purposes.	GLO1: Discipline-specific knowledge and capabilities GLO3: Digital literacy
MLO2	Analyse and synthesise information from multiple sources.	GLO3: Digital literacy
MLO3	Identify the value of information for personal and business decision-making.	GLO5: Problem solving
MLO4	Assess the role and sources of information in everyday life.	GLO6: Self-management

Assessment

Assessment Description	Student output	Grading and weighting (% total mark for module)	Indicative due week
Assessment 1: (Individual) Report (Business)	1500 words	40%	Week 8
Assessment 2: (Individual) Written reflection (Self)	500 words	20%	Week 10
End-of-module assessment task: Written	2 hours	40%	End-of-module assessment period

Learning Resources

Library resources to support your learning will mainly be electronic and will be accessed using your DLI IT account login. Specific resources for a module are identified in an electronic reading list (we call them Resource Lists at Lancaster) that is accessed via the Moodle site for this module.

A subject guide will provide guidance on a wider range of resources for your subject area, and you can search for and access all electronic library resources available to you via the OneSearch library search tool. Links to the subject guide and to OneSearch are also available on Moodle sites.

Standard fee information disclaimer

Fees and charges vary depending on the type of fee place you hold, your course, your commencement year, the modules you choose to study, and their study discipline or your study load.

Fees are reviewed annually and may be increased to reflect increases in cost of delivery of the programs in line with increases in the consumer price index and to reflect changes required by regulatory, professional, or academic bodies resulting in additional costs. All fees quoted are in Indonesian Rupiah (IDR). Tuition fees do not include textbooks, computer equipment or software, other equipment or costs such as mandatory checks, travel and stationery.

Estimate your fees

For further information regarding tuition fees, other fees and charges, invoice due dates, withdrawal dates, payment methods visit our current students website.

MIS202 Managing Data and Information	
Year	2025-26
Credits	15
Enrolment Mode	All modules are delivered at Deakin Lancaster Indonesia campus.
EFTSL Value	0.125 (EFTSL stands for **Equivalent Full-Time Student Load**. It is a measure used to calculate a full-time student's annual study load).
Module Chair	Prana Sudhana
Module Rules	Nil
Scheduled Learning Activities	1 x 1.5 hour on campus lecture and 1 x 1.5 hour on campus practical experience (laboratory) each week.
Workload/Study Commitment	Students will on average spend 150 hours over the teaching period undertaking the teaching, learning and assessment activities for this module. This will include educator guided online learning activities within the module site.

Module Content

The capability to manage data and information is fundamental to any organisation. An information systems graduate should have good knowledge of the techniques to query large databases and analyse business needs to design a structured database. The module uses familiar applications (eg Facebook, Amazon and Google to illustrate the importance of structured databases. Big data in the context of structured, semi-structured and unstructured data is also discussed. The importance of data quality is discussed in the context of the DAMA wheel. Principles of information asset management is also covered with a focus on data and information governance in an era of increasing data monetisation. Students will perform basic Structured Query Language (SQL) queries and develop the ability to design and develop a comprehensive EER data model based on an analysis of an organisation's information needs, and allow for the informed selection of a comprehensive information asset management approach.

Module Learning Outcomes

MLO	These are the Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Alignment to Deakin Graduate Learning Outcomes (GLOs)
MLO1	Explain the social and regulatory context in which the management of data and information takes place.	GLO8: Global citizenship

MLO	These are the Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Alignment to Deakin Graduate Learning Outcomes (GLOs)
MLO2	Develop a comprehensive relational data model based on organisational requirements and needs.	GLO5: Problem solving
MLO3	Develop skills to manage and extract data from a relational database using SQL queries.	GLO1: Discipline-specific knowledge and capabilities GLO5: Problem solving
MLO4	Explain the value of digital literacy that are critical for data quality governance initiatives within an organisation.	GLO3: Digital literacy

Assessment

Assessment Description	Student output	Grading and weighting (% total mark for module)	Indicative due week
Assessment 1: (Individual) Report (Analytical)	1000 words	30%	Week 5
Assessment 2: (Individual) Report (Analytical)	1000 words	30%	Week 8
Assessment 3: (Individual) Report (Business)	1500 words	40%	Week 11

Learning Resources

Library resources to support your learning will mainly be electronic and will be accessed using your DLI IT account login. Specific resources for a module are identified in an electronic reading list (we call them Resource Lists at Lancaster) that is accessed via the Moodle site for this module.

A subject guide will provide guidance on a wider range of resources for your subject area, and you can search for and access all electronic library resources available to you via the OneSearch library search tool. Links to the subject guide and to OneSearch are also available on Moodle sites.

Standard fee information disclaimer

Fees and charges vary depending on the type of fee place you hold, your course, your commencement year, the modules you choose to study, and their study discipline or your study load.

Fees are reviewed annually and may be increased to reflect increases in cost of delivery of the programs in line with increases in the consumer price index and to reflect changes required by regulatory, professional, or academic bodies resulting in additional costs. All fees quoted are in

Indonesian Rupiah (IDR). Tuition fees do not include textbooks, computer equipment or software, other equipment or costs such as mandatory checks, travel and stationery.

Estimate your fees

For further information regarding tuition fees, other fees and charges, invoice due dates, withdrawal dates, payment methods visit our current students website.

Indonesian National Subjects

Module Content

National modules in Indonesia's tertiary education system refer to core subjects that align with the national education system goals and values, focussing on forming Indonesian citizens grounded in Pancasila (the state philosophy) and national identity.

These requirements are defined by the Ministry of Education in the national curriculum and education policy and are comprised of:

1. Religion
2. Indonesian language
3. Pancasila (Indonesian philosophy)
4. Citizenship

Religion provides an overview of a range of faiths, including Islam, Christianity, Buddhism, Hinduism, and Confucius. In this module, you will be grouped according to your defined religious orientation.

Religion: Buddhism, Islamic, Catholic, Hindu, Christian – Indonesian National Module	
Year	2025-26
Credits	30 credits shared across the four Indonesian National modules of Religion, Indonesian Language, Pancasila (Indonesian philosophy), Citizenship
Enrolment Mode	All modules are delivered at Deakin Lancaster Indonesia campus.
EFTSL Value	N/A
Module Chair	This module is provided by Telkom University (Bandung)
Module Rules	National modules must be completed by the end of Year 1 of your course.
Scheduled Learning Activities	9 sessions x 100 minutes on campus 7 sessions x 100 minutes online via Telkom
Workload/Study Commitment	6 weeks

Module Learning Outcomes

MLO	These are the Course/Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Program Learning Outcomes
MLO1	Students are able to fully understand noble characteristics through religious values to foster individuals that are faithful and God-fearing who respect differences	Students are able to apply logical, critical, systematic, and innovative thinking in the context of developing or implementing science and technology while upholding humanitarian values in carrying out duties, based on religion, morality and ethics.
MLO2	Students are able to implement the concept of faith and obedience to God Almighty in their daily lives.	

Buddhism Religion

This course is an effort aiming to foster disciplined and responsible individuals who internalise and adhere to the Dharma of the Buddhist Teachings in their daily lives.

Assessment

Grading and weighting (% total mark for module)					
MLO	**Cognitive Knowledge Quiz**	**Participative Activity Mentoring**	**Semester Project 1**	**Semester 2 Project**	**Weighted Total for MLO**
MLO1	10	10	30		50%
MLO1	10	10		30	50%
Total per Assessment	20	20	30	30	100%

Islamic Religion

The Islam Religion course plays a crucial role in fostering intellectual growth, enhancing understanding and practice of Islamic teachings, and developing the character and civility of students. It aims to cultivate individuals who are faithful, pious and possess good morals.

Assessment

Grading and weighting (% total mark for module)						Total Weight Per MLO (%)
	Cognitive		Participative Activity			Total
MLO	Assignment Activity	Cognitive Knowledge Quiz	Semester Project 1	Semester Project 2	Mentoring (Cognitive Case)	
MLO1	7.5	5	25		10	47.5%
MLO2	7.5	10		25	10	52.5%
Total per Assessment	15	15	25	25	20	100%

Catholic Religion

This course discusses the importance of building our awareness and enhancing the capacity of Catholic students to understand the origin, essence and objectives of the life of a dignified human.

Assessment

Grading and weighting (% total mark for module)					Total Weight Per MLO (%)
	Cognitive	Project Outcomes		Participative Activity	Total
MLO	Cognitive Knowledge Quiz	Semester Project 1	Semester Project 2	Mentoring (Cognitive Case)	
MLO1	10	30		10	50%
MLO2	10		30	10	50%
Total per Assessment	20	30	30	20	100%

Hindu Religion

In this course, students will be able to develop a humanistic personality, possess leadership, qualities for the advancement of human civilisation, adhere to the law, be just, have a creative, innovative, dynamic and excellent work ethic; be healthy and adaptive; have social awareness, be tolerant and have a moderate religious attitude and live in harmony with the environment.

Assessment

Grading and weighting (% total mark for module)						Total Weight Per MLO (%)
	Cognitive		Project Outcomes	Participative Activity		Total
MLO	Cognitive Knowledge Quiz	Test	Semester Project	Mentoring (Cognitive Case)	Assignment	
MLO1		30		10	10	50%
MLO2	5		35	10		50%
Total per Assessment	5	30	35	20	10	100%

Christian Religion

Christian Religious Education and Ethics provide the foundation for the lives of Christian students, concerning their worldview including understanding of Who God is, Humanity and Sin, as well as their implications for human life, ethics, personal relationships, family and nationhood.

Assessment

Grading and weighting (% total mark for module)					Total Weight Per MLO (%)
	Cognitive	Project Outcomes		Participative Activity	Total
MLO	Cognitive Knowledge Quiz	Semester Project 1	Semester Project 2	Mentoring (Cognitive Case)	
MLO1	10	30		10	50%
MLO2	10		30	10	50%
Total per Assessment	20	30	30	20	100%

Hurdle Requirements

Although students must pass all four Indonesian National modules, they do not contribute to a student's degree classification. Upon successful completion of the four Indonesian National modules, a Certificate of completion will be conferred by Telkom University.

Indonesian Language – Indonesian National Module	
Year	2025-26
Credits	30 credits shared across the four Indonesian National modules of Religion, Indonesian Language, Pancasila (Indonesian philosophy), Citizenship
Enrolment Mode	All modules are delivered at Deakin Lancaster Indonesia campus.
EFTSL Value	N/A
Module Chair	This module is provided by Telkom University (Bandung)
Module Rules	National modules must be completed by the end of Year 1 of your course.
Scheduled Learning Activities	9 sessions x 100 minutes on campus 7 sessions x 100 minutes online via Telkom
Workload/Study Commitment	6 weeks

Module Learning Outcomes

MLO	These are the Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Program Learning Outcomes
MLO1	Students are able to correctly use standard words, terms and spelling as well as construct accurate definitions, sentences and paragraphs in scientific writing.	Students are able to apply logical, critical, systematic, and innovative thinking in the context of developing or implementing science and technology while upholding humanitarian values in carrying out duties, based on religion, morality and ethics.
MLO2	Students are able to formulate topics, create outlines and drafts and apply conventions for scientific writing.	
MLO3	Students are able to write and revise scientific papers, presenting them in clear and accurate language.	

Assessment

Grading and weighting (% total mark for module)					Total Weight Per MLO (%)
	Cognitive	Project Outcomes		Participative Activity	Total
MLO	Cognitive Knowledge Quiz	Semester Project 1	Semester Project 2	Assignments	
MLO1	7.5			7.5	15%
MLO2	15	30			45%
MLO3	15		25		40%
Total per Assessment	37.5	30	25	7.5	100%

Hurdle Requirements

Although students must pass all four Indonesian National modules, they do not contribute to a student's degree classification. Upon successful completion of the four Indonesian National modules, a Certificate of completion will be conferred by Telkom University.

Pancasila (Indonesian philosophy) – Indonesian National Module	
Year	2025-26
Credits	30 credits shared across the four Indonesian National modules of Religion, Indonesian Language, Pancasila (Indonesian philosophy), Citizenship
Enrolment Mode	All modules are delivered at Deakin Lancaster Indonesia campus.
EFTSL Value	N/A
Module Chair	This module is provided by Telkom University (Bandung)
Module Rules	National modules must be completed by the end of Year 1 of your course.
Scheduled Learning Activities	9 sessions x 100 minutes on campus 7 sessions x 100 minutes online via Telkom
Workload/Study Commitment	6 weeks

Module Learning Outcomes

MLO	These are the Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Program Learning Outcomes
MLO1	Student are able to explain the urgency of Five Principles (Pancasila) within Historical Context	Students are able to apply logical, critical, systematic, and innovative thinking in the context of developing or implementing science and technology while upholding humanitarian values in carrying out duties, based on religion, morality and ethics.
MLO2	Students are able to analyse Five Principles (Pancasila) as the country's foundation and ideology	
MLO3	Students are able to analyse Five Principles (Pancasila) as a philosophical system, ethics and foundation of knowledge	

Assessment

Grading and weighting (% total mark for module)					Total Weight Per MLO (%)
	Cognitive	Project Outcomes		Participative Activity	Total
MLO	Cognitive Knowledge Quiz	Research Project	Social Project	Assignments	
MLO1	5	10		5	20%
MLO2	5	20		5	30%
MLO3	15		30	5	50%
Total per Assessment	25	30	30	15	100%

Hurdle Requirements

Although students must pass all four Indonesian National modules, they do not contribute to a student's degree classification. Upon successful completion of the four Indonesian National modules, a Certificate of completion will be conferred by Telkom University.

Citizenship – Indonesian National Module	
Year	2025-26
Credits	30 credits shared across the four Indonesian National modules of Religion, Indonesian Language, Pancasila (Indonesian philosophy), Citizenship
Enrolment Mode	All modules are delivered at Deakin Lancaster Indonesia campus.
EFTSL Value	N/A
Module Chair	This module is provided by Telkom University (Bandung)
Module Rules	National modules must be completed by the end of Year 1 of your course.
Scheduled Learning Activities	9 sessions x 100 minutes on campus 7 sessions x 100 minutes online via Telkom
Workload/Study Commitment	6 weeks

Module Learning Outcomes

MLO	These are the Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Program Learning Outcomes
MLO1	Students are able to analyse contextual issues in Civic Education, develop positive attitudes and exhibit behaviours that support national spirit and patriotism.	Students are able to apply logical, critical, systematic, and innovative thinking in the context of developing or implementing science and technology while upholding humanitarian values in carrying out duties, based on religion, morality and ethics.
MLO2	Students are able to analyse contextual issues in Civic Education, develop positive attitudes and exhibit behaviours that support constitutional awareness and diversity.	
MLO3	Students are able to analyse contextual issues in Civic	

MLO	These are the Module Learning Outcomes (MLOs) for this module. At the completion of this module, successful students can:	Program Learning Outcomes
	Education, develop positive attitudes and exhibit legal awareness, uphold justice and civility.	

Assessment

Grading and weighting (% total mark for module)					Total Weight Per MLO (%)
MLO	**Cognitive**	**Project Outcomes**		**Participative Activity**	**Total**
	Cognitive Knowledge Quiz	**Research Project**	**Social Project**	**Assignments**	
MLO1	10	12.5		5	27.5%
MLO2	10	12.5		5	27.5%
MLO3	10		30	5	45%
Total per Assessment	30	25	30	15	100%

Hurdle Requirements

Although students must pass all four Indonesian National modules, they do not contribute to a student's degree classification. Upon successful completion of the four Indonesian National modules, a Certificate of completion will be conferred by Telkom University.