

Mapping Guide

DRAFT

LEVEL 3 CAMBRIDGE ADVANCED NATIONAL (AAQ) IN

# IT: DATA ANALYTICS

**Certificate H019**

**Extended Certificate H119**

For first teaching in 2025

**Mapping the Cambridge Advanced National in IT:  
Data Analytics to Cambridge Technical in Information  
Technology Level 3: 05838-05842, 05877**

# Introduction

Cambridge Advanced Nationals are our new Level 3 qualifications, available for first teaching in 2025. We've worked closely with teachers and representatives from higher education institutions throughout the development process to ensure that these qualifications are of the highest quality, preparing your students for their next steps.

These qualifications offer current, engaging content that is relevant for young people pursuing degree courses and careers across various fields. Students will learn and develop vital practical skills, which they can directly apply to real-life situations and professional scenarios. At the same time, they will also develop a solid foundation of theoretical knowledge and understanding necessary for their progression to university. We've designed these new qualifications to be accessible for all students.

We've created this mapping guide to help you move from the current Level 3 Cambridge Technicals qualifications to the new Cambridge Advanced Nationals qualifications. The guide clearly shows which content is the same as you are used to, and where new content has been introduced.

# This mapping guide

In the tables that follow, you can see:

- new unit details including Topic Area (TA) numbers and titles
- how the new units map to the existing specification units that you may be familiar with
- which content is completely new to these qualifications
- which content from the existing specifications no longer features in the new qualification
- brief comments about the changes we've made.

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**In each unit, you'll see we now have teaching content in Topic Areas instead of learning outcomes. Read more in the [specification](#).**

# Mapping detail

Cambridge Advanced National (AAQ)  
IT: Data Analytics

Cambridge Technical in  
Information Technology  
Level 3: 05838-05842,  
05877 (2016 Suite)

F200 Fundamentals of data analytics		Unit number	LO number	Comment
Topic Area number	Topic Area title			
1	Understanding data	2 7	2/3/5 1	<p>Some similar content with significant changes.</p> <p>Some of the content of the new qualification's Topic Area (TA)1.1 (what data, information and knowledge are) can be mapped to the current qualification Unit 2 LO3.1 (Data vs information). The term 'knowledge' had been added to the new qualification so that there is a requirement to know the difference between not only data and information, but knowledge also.</p> <p>Sources of data, information and knowledge (TA1.1) can be mapped to Unit 2 LO5.1 (Information sources and data types).</p> <p>New content specifically related to the interaction of data, information and knowledge (TA1.1) and the use of big data (TA1.2) has been added to the new qualification.</p> <p>Some of the data and file formats in TA1.3 (data and file formats) can be mapped to Unit 2 LO2.1 (Information styles and their uses). The list of data and file formats in the new qualification has been updated to include most commonly used and up-to-date formats.</p> <p>Some new content relating to data types (TA1.4) has been added. The classifications of data in TA1.4 can be mapped to similar content in Unit 2 LO5.1 (Information sources and data types) and Unit 7 LO1.1 (Data type).</p>

F200 Fundamentals of data analytics		Unit number	LO number	Comment
Topic Area number	Topic Area title			
2	Managing data	2 7	3 1/2	<p>Some similar content with significant changes. Some of the content of TA2 can be mapped to similar content in Unit 02 (LO3) and Unit 07 (LO1 and LO2). New content relating to Data lifecycle management (DLM) and the data analytics pipeline (TA2.1), Data transformation (TA2.4), Usage and analysis (TA2.5), Archival (TA2.7) and Destruction (TA2.8) of data has been added. Some of the content of TA2.2.1 (Data assurance considerations) is similar to the content of Unit 2, LO2.3 (Quality of information). Some additional considerations have been added. Methods of data gathering (TA2.2.2) can be mapped to similar content in Unit 07 LO1.2 (Data collection) and LO2.2 (Techniques). This content has been expanded upon with a definitive list of methods added and a section on 'Factors influencing the effectiveness of data gathering' have been added in the new qualification.</p> <p>Some of the content of TA2.3.4 (On-site storage) and TA2.3.5 (Cloud storage) is similar to Unit 2 LO1.3 (Types of information access and storage devices). The content in the new qualification includes more details about the types of on-site and cloud storage.</p> <p>Some of the data visualisation methods in TA2.6.2 (Visualising data) can be mapped to Unit 2 LO3.4 (Stages of data analysis) and Unit 7 LO1.2 (stage of data analysis). The content has been streamlined with addition of some new data visualisation methods and a standalone content section in the new qualification Unit F200 TA2.6 (Usage and visualisation).</p>

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<b>F200 Fundamentals of data analytics</b>		<b>Unit number</b>	<b>LO number</b>	<b>Comment</b>
<b>Topic Area number</b>	<b>Topic Area title</b>			
3	How data can be accessed and managed across platforms			New TA – content is not in the current qualification.
4	Legal considerations	2	4	Similar content with some legislation not directly related to data not included in the new qualification. The legislation and regulations in TA4.1 can be mapped to Unit 2 LO4. The UK General Data Protection Regulation (UK GDPR) has been added. The Regulation of Investigatory Powers (RIPA) 2000, Protection of Freedoms Act 2012, Copyright, Design and Patents Act 1998 and the Equality Act (EQA) 2011 have been removed from the new qualification content in Unit F200.
5	Job roles, skills and attributes in data analytics	1	4	Similar content with more data specific job roles added. The new qualification unit F200 TA5.1 (Job roles related to data analytics) has been introduced. The content for skills and attributes has been separated into two sections: personal attributes (TA5.2) and communication skills (TA5.3) which can be mapped to Unit 1 LO4.3. Additional personal attributes (analytical skills, effective communicator) and communication skills (appropriate language to meet the needs of the audience, non-verbal and questioning techniques to elicit specific information) have been added to the new qualification.

<b>F201 Big data and machine learning</b>		<b>Unit number</b>	<b>LO number</b>	<b>Comment</b>
<b>Topic Area number</b>	<b>Topic Area title</b>			
1	The scope of managing big data	7 22	1 1	Some similar content with significant changes. The new qualification unit F201 TA 1.1 (Six characteristics) includes two additional characteristics (Value of data, Variability of data inconsistency) compared to those previously taught in Unit 22 LO1. The six steps for analysing big data in TA 1.1 are covered in Unit 7 LO1 with the addition of data mining and data consumption in the new qualification content. Content on the evolution of big data (TA1.2), how big data is captured (TA1.3) and the purpose, importance and use of big data analytics (TA1.4) has been added to the new qualification unit F201 TA1.
2	The infrastructure challenges of big data	7 22	1 1/2	Some similar content with significant changes. The content of TA2 is mostly new content. Data cleaning techniques are covered briefly in Unit 7 LO1 and Unit 22 LO2 but are expanded upon in the new qualification unit F201 TA 2.2. The Infrastructure challenges of big data can be mapped to Unit 22 LO 1.4 but the new TA greatly expands upon this content, separating it into distinct areas. New content includes types of big data (TA2.1), data mining techniques (TA2.3), big data infrastructure (TA2.4), data science and data analytics (TA2.5) and data analytic techniques (TA2.6).
3	Big data, machine learning and artificial intelligence			New TA – content is not in the current qualification.
4	Legal and ethical issues in data management			New TA – content is not in the current qualification.
5	Environment and society			New TA – content is not in the current qualification.

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<b>F202 Spreadsheet data modelling</b>		<b>Unit number</b>	<b>LO number</b>	<b>Comment</b>
<b>Topic Area number</b>	<b>Topic Area title</b>			
1	Principles of spreadsheet modelling			New TA – content is not in the current qualification.
2	Planning the design of a spreadsheet model			New TA – content is not in the current qualification.
3	Creating the spreadsheet model			New TA – content is not in the current qualification.
4	Delivering the outcomes			New TA – content is not in the current qualification.
5	Evaluation			New TA – content is not in the current qualification.

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<b>F203 Regional database design</b>		<b>Unit number</b>	<b>LO number</b>	<b>Comment</b>
<b>Topic Area number</b>	<b>Topic Area title</b>			
1	Relational database concepts			New TA – content is not in the current qualification.
2	Plan relational database solutions			New TA – content is not in the current qualification.
3	Create relational databases			New TA – content is not in the current qualification.
4	Testing relational database solutions			New TA – content is not in the current qualification.
5	Evaluate database solutions			New TA – content is not in the current qualification.

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<b>F204 Data and the Internet of Everything (IoE)</b>		<b>Unit number</b>	<b>LO number</b>	<b>Comment</b>
<b>Topic Area number</b>	<b>Topic Area title</b>			
1	IoE ecosystem	17	1/2	Similar content with some minor changes. The content of TA1.1 (Sectors that use the IoE) is covered in Unit 17 LO2 and has been made more concise to cover areas of use rather than specific technologies. The four pillars infrastructure of the IoE (TA1.2) is covered in Unit 17 LO1.5 but has been made much clearer as one distinct teaching area.
2	Data collection, processing and storage methods and devices	17	1	New TA – some content from LO1. TA2.2 (Power considerations for data collection devices) contains new teaching content. Other teaching topics such as data collection devices (TA2.1), data processing (TA2.3) and data storage (TA2.4) are covered in Unit 17 LO1, but have been expanded on in areas such as cloud services and specific locations for data storage.
3	Connectivity and data transmission	17	1	New TA – some content from LO1. Types of connectivity (TA3.1) and transmission considerations (TA 3.3) have been added as new content. Connectivity methods (TA3.2) can be mapped to Unit 17 LO1.13 with additional methods such as Global Positioning System (GPS), Near Field Communication (NFC), Zigbee and Z Wave added.
4	Human computer interfaces (HCIs)			New TA - content is not in the current qualification.
5	Securing IoE devices			New TA - content is not in the current qualification.
6	Documentation and audience communication	17	3	Largely similar content with some changes and restructuring to make clearer. Specific benefits of a proposed solution have been outlined in TA 6.4 and technical documentation content has been added in TA 6.5.

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<b>F205 Data visualisation</b>		<b>Unit number</b>	<b>LO number</b>	<b>Comment</b>
<b>Topic Area number</b>	<b>Topic Area title</b>			
1	The value and importance of data visualisation			New TA - content is not in the current qualification.
2	Planning for data dashboards			New TA - content is not in the current qualification.
3	Techniques for creating a data dashboard			New TA - content is not in the current qualification.
4	Communicating information and interpreting data			New TA - content is not in the current qualification.
5	Evaluating the effectiveness of visualisation solutions			New TA - content is not in the current qualification.

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<b>F206 Data and digital marketing</b>		<b>Unit number</b>	<b>LO number</b>	<b>Comment</b>
<b>Topic Area number</b>	<b>Topic Area title</b>			
1	Digital marketing fundamentals	13	1	Content of TA1 can be mapped to Unit 13 LO1. Additional purposes of digital marketing have been added for clarification. The new qualification content for F206 TA1 on approaches to digital marketing have been added. Some digital marketing tools have been removed. Some content on identifying potential customers and markets and goals of digital marketing has been added.
2	Data driven digital marketing	13	2	Much of the content of TA2 can be mapped to Unit 13 LO2 and it has been reorganised into three distinct areas: data collection (TA2.1), data analysis (TA2.2) and data use (TA2.3). TA2.1 (Data collection) has been expanded upon. Research, communication, legislation and ethical and moral issues from the current qualification unit 13 LO2 have not been included in the new qualification unit F206 TA2 content.
3	Planning digital marketing content	13	3	TA3.1 has been redeveloped to outline expectations of content that would be included in a plan for a digital marketing campaign. New content on the 7 Ps of digital marketing and the digital marketing funnel in TA 3.2 and TA3.3 has been included in the new qualification.
4	Creating content for digital marketing campaigns	13	4	New TA - content is not in the current qualification.
5	Communicating to stakeholders	13	4	New TA - content is not in the current qualification.
6	Reflection and evaluation of working processes	13	4	New TA - content is not in the current qualification.

# New content not in the Cambridge Technical specification

Cambridge Advanced National unit number	Cambridge Advanced National unit	Cambridge Advanced National Topic Area number	Cambridge Advanced National Topic Area
<b>F200</b>	Fundamentals of data analytics	TA3	How data can be accessed and managed across platforms
<b>F201</b>	Big data and machine learning	TA3	Big data, machine learning and artificial intelligence
		TA4	Legal and ethical issues in data management
		TA5	Environment and society
<b>F202</b>	Spreadsheet data modelling	TA1	Principles of spreadsheet modelling
		TA2	Planning the design of a spreadsheet model
		TA3	Creating the spreadsheet model
		TA4	Delivering the outcomes
		TA5	Evaluation
<b>F203</b>	Relational database design	TA1	Relational database concepts
		TA2	Plan relational database solutions
		TA3	Create relational databases
		TA4	Testing relational database solutions
		TA5	Evaluate database solutions
<b>F204</b>	Data and the Internet of Everything (IoE)	TA4	Human computer interfaces (HCIs)
		TA5	Securing IoE devices
<b>F205</b>	Data visualisation	TA1	The value and importance of data visualisation
		TA2	Planning for data dashboards
		TA3	Techniques for creating a data dashboard
		TA4	Communicating information and interpreting data
		TA5	Evaluating the effectiveness of visualisation solutions

# Cambridge Technical content not in the Cambridge Advanced National

Cambridge Technical unit number	Cambridge Technical unit title	Cambridge Technical LO number	Cambridge Technical LO title
<b>1</b>	Fundamentals of IT	LO1	Understand computer hardware
		LO2	Understand computer software
		LO3	Understand business IT systems
		LO5	Understand ethical and operational issues and threats to computer systems
<b>2</b>	Global Information	LO1	Understand where information is held globally and how it is transmitted
		LO5	Understand the process flow of information
		LO6	Understand the principles of information security
<b>3</b>	Cyber Security	LO1	Understand what is meant by cyber security
		LO2	Understand the issues surrounding cyber security
		LO3	Understand measures used to protect against cyber security incidents
		LO4	Understand how to manage cyber security incidents
<b>4</b>	Computer Networks	LO1	Understand the concept of networks
		LO2	Be able to plan computer networks to meet client requirements
		LO3	Be able to present network solutions to clients
		LO4	Be able to plan maintenance activities for computer networks
<b>5</b>	Virtual and Augmented Reality	LO1	Understand virtual and augmented reality and how they may be used
		LO2	Be able to design virtual and augmented reality resources
		LO3	Be able to create a virtual or augmented reality resource
		LO4	Be able to predict future applications for virtual and augmented reality
<b>7</b>	Data Analysis and Design	LO3	Be able to develop data design solutions to meet business requirements
		LO4	Be able to present data analysis and design solutions to stakeholders

Cambridge Technical unit number	Cambridge Technical unit title	Cambridge Technical LO number	Cambridge Technical LO title
<b>8</b>	Project Management	LO1	Understand the project life cycle
		LO2	Be able to initiate and plan projects
		LO3	Be able to execute projects
		LO4	Be able to carry out project evaluations
<b>9</b>	Product Development	LO1	Understand the product development life cycle
		LO2	Be able to design products that meet identified client requirements
		LO3	Be able to implement and test products
		LO4	Be able to carry out acceptance testing with clients
<b>10</b>	Business Computing	LO1	Know the attributes required for data analyst job roles
		LO2	Be able to capture and store data for analysis
		LO3	Be able to use tools to edit and analyse data
		LO4	Be able to present data analysis outcomes
<b>11</b>	Systems Analysis and Design	LO1	Understand the role of systems analysis and design in relation to the systems development lifecycle
		LO2	Be able to use investigative techniques to establish requirements for business systems
		LO3	Be able to develop and document models for business systems
		LO4	Be able to create logical and physical designs for specified business systems
<b>12</b>	Mobile Technology	LO1	Understand mobile technologies
		LO2	Be able to investigate how businesses use mobile technologies
		LO3	Be able to determine solutions for the use of mobile technologies
		LO4	Be able to present solutions for the use of mobile technologies
<b>14</b>	Software Engineering for Business	LO1	Understand universal programming constructs
		LO2	Be able to investigate business requirements for programming solutions
		LO3	Be able to develop software solutions to meet business requirements
		LO4	Be able to propose software solutions to meet business requirements

Cambridge Technical unit number	Cambridge Technical unit title	Cambridge Technical LO number	Cambridge Technical LO title
<b>15</b>	Games Design and Prototyping	LO1	Understand the principles of game design and prototyping
		LO2	Be able to develop game concepts
		LO3	Be able to develop game prototypes
		LO4	Be able to present and evaluate game concepts
<b>16</b>	Developing a Smarter Planet	LO1	Understand what is meant by a Smarter Planet
		LO2	Be able to propose ways to extend the scope of the Smarter Planet
		LO3	Be able to present, refine and evaluate Smarter Planet concepts
<b>18</b>	Computer Systems - Hardware	LO1	Understand the components of a computer system
		LO2	Be able to propose computer systems for identified business requirements
		LO3	Be able to build or upgrade computers
		LO4	Be able to test and evaluate the functionality of computer systems
<b>19</b>	Computer Systems - Software	LO1	Understand different software installations and their purpose
		LO2	Be able to implement software installations and upgrades to meet specified user requirements
		LO3	Be able to conduct system maintenance using utility software
<b>20</b>	IT Technical Support	LO1	Understand the role of technical support
		LO2	Be able to diagnose faults and solutions for computer systems
		LO3	Be able to provide advice and guidance to specific customers
<b>21</b>	Web Design and Prototyping	LO1	Understand the fundamentals of web design
		LO2	Be able to plan the development of an interactive website for an identified client
		LO3	Be able to create prototype websites for an identified client
		LO4	Be able to present the interactive website concept to an identified client
<b>22</b>	Big Data Analytics	LO3	Be able to provide information resulting from processing Big Data

Cambridge Technical unit number	Cambridge Technical unit title	Cambridge Technical LO number	Cambridge Technical LO title
<b>23</b>	Cognitive Computing	LO1	Know how cognitive computing is used in business
		LO2	Be able to investigate opportunities for the positive application of cognitive computing
		LO3	Be able to generate business proposals for an identified application of cognitive computing
<b>24</b>	Enterprise Computing	LO1	Understand the concept of enterprise computing systems
		LO2	Be able to investigate business requirements for an enterprise computer solution
		LO3	Be able to develop enterprise computing solutions to meet business requirements
		LO4	Be able to review the enterprise computing solution with stakeholders
<b>CC</b>	Cloud Computing	LO1	Understand the characteristics and context of cloud technology and why it is used
		LO2	Understand the business benefits of cloud services
		LO3	Understand the requirements of cloud services
		LO4	Understand the features of cloud storage
		LO5	Understand the deployment requirements for cloud-based services for organisations
		LO6	Know regulatory issues that impact cloud technology
		LO7	Know about impact, risks and security issues related to cloud technology

# Appendix

## Cambridge Technical qualification units and learning outcome (LO) titles

Unit number	Unit title	LO number	LO title
1	Fundamentals of IT	LO1	Understand computer hardware
		LO2	Understand computer software
		LO3	Understand business IT systems
		LO4	Understand employability and communication skills used in an IT environment
		LO5	Understand ethical and operational issues and threats to computer systems
2	Global Information	LO1	Understand where information is held globally and how it is transmitted
		LO2	Understand the styles, classification and the management of global information
		LO3	Understand the use of global information and the benefits to individuals and organisations
		LO4	Understand the legal and regulatory framework governing the storage and use of global information
		LO5	Understand the process flow of information
		LO6	Understand the principles of information security
3	Cyber Security	LO1	Understand what is meant by cyber security
		LO2	Understand the issues surrounding cyber security
		LO3	Understand measures used to protect against cyber security incidents
		LO4	Understand how to manage cyber security incidents

Unit number	Unit title	LO number	LO title
4	Computer Networks	LO1	Understand the concept of networks
		LO2	Be able to plan computer networks to meet client requirements
		LO3	Be able to present network solutions to clients
		LO4	Be able to plan maintenance activities for computer networks
5	Virtual and Augmented Reality	LO1	Understand virtual and augmented reality and how they may be used
		LO2	Be able to design virtual and augmented reality resources
		LO3	Be able to create a virtual or augmented reality resource
		LO4	Be able to predict future applications for virtual and augmented reality
6	Application Design	LO1	Understand how applications are designed
		LO2	Be able to investigate potential solutions for application developments
		LO3	Be able to generate designs for application solutions
		LO4	Be able to present application solutions to meet client and user requirements
7	Data Analysis and Design	LO1	Understand the purpose and stages of data analysis and design
		LO2	Be able to investigate client requirements for data analysis
		LO3	Be able to develop data design solutions to meet business requirements
		LO4	Be able to present data analysis and design solutions to stakeholders
8	Project Management	LO1	Understand the project life cycle
		LO2	Be able to initiate and plan projects
		LO3	Be able to execute projects
		LO4	Be able to carry out project evaluations
9	Product Development	LO1	Understand the product development life cycle
		LO2	Be able to design products that meet identified client requirements
		LO3	Be able to implement and test products
		LO4	Be able to carry out acceptance testing with clients

Unit number	Unit title	LO number	LO title
<b>10</b>	Business Computing	LO1	Know the attributes required for data analyst job roles
		LO2	Be able to capture and store data for analysis
		LO3	Be able to use tools to edit and analyse data
		LO4	Be able to present data analysis outcomes
<b>11</b>	Systems Analysis and Design	LO1	Understand the role of systems analysis and design in relation to the systems development lifecycle
		LO2	Be able to use investigative techniques to establish requirements for business systems
		LO3	Be able to develop and document models for business systems
		LO4	Be able to create logical and physical designs for specified business systems
<b>12</b>	Mobile Technology	LO1	Understand mobile technologies
		LO2	Be able to investigate how businesses use mobile technologies
		LO3	Be able to determine solutions for the use of mobile technologies
		LO4	Be able to present solutions for the use of mobile technologies
<b>13</b>	Social Media and Digital Marketing	LO1	Understand digital marketing
		LO2	Understand the use of social media in business
		LO3	Be able to plan content and propose appropriate social media channels for digital marketing campaigns
		LO4	Be able to develop social media digital marketing campaigns
<b>14</b>	Software Engineering for Business	LO1	Understand universal programming constructs
		LO2	Be able to investigate business requirements for programming solutions
		LO3	Be able to develop software solutions to meet business requirements
		LO4	Be able to propose software solutions to meet business requirements
<b>15</b>	Games Design and Prototyping	LO1	Understand the principles of game design and prototyping
		LO2	Be able to develop game concepts
		LO3	Be able to develop game prototypes
		LO4	Be able to present and evaluate game concepts

Unit number	Unit title	LO number	LO title
16	Developing a Smarter Planet	LO1	Understand what is meant by a Smarter Planet
		LO2	Be able to propose ways to extend the scope of the Smarter Planet
		LO3	Be able to present, refine and evaluate Smarter Planet concepts
17	Internet of Everything	LO1	Understand what is meant by the Internet of Everything (IoE)
		LO2	Be able to repurpose technologies to extend the scope of the IoE
		LO3	Be able to present concept ideas for repurposed developments
18	Computer Systems - Hardware	LO1	Understand the components of a computer system
		LO2	Be able to propose computer systems for identified business requirements
		LO3	Be able to build or upgrade computers
		LO4	Be able to test and evaluate the functionality of computer systems
19	Computer Systems - Software	LO1	Understand different software installations and their purpose
		LO2	Be able to implement software installations and upgrades to meet specified user requirements
		LO3	Be able to conduct system maintenance using utility software
20	IT Technical Support	LO1	Understand the role of technical support
		LO2	Be able to diagnose faults and solutions for computer systems
		LO3	Be able to provide advice and guidance to specific customers
21	Web Design and Prototyping	LO1	Understand the fundamentals of web design
		LO2	Be able to plan the development of an interactive website for an identified client
		LO3	Be able to create prototype websites for an identified client
		LO4	Be able to present the interactive website concept to an identified client
22	Big Data Analytics	LO1	Understand the scope and challenges of Big Data
		LO2	Be able to process Big Data for business purposes
		LO3	Be able to provide information resulting from processing Big Data

Unit number	Unit title	LO number	LO title
<b>23</b>	Cognitive Computing	LO1	Know how cognitive computing is used in business
		LO2	Be able to investigate opportunities for the positive application of cognitive computing
		LO3	Be able to generate business proposals for an identified application of cognitive computing
<b>24</b>	Enterprise Computing	LO1	Understand the concept of enterprise computing systems
		LO2	Be able to investigate business requirements for an enterprise computer solution
		LO3	Be able to develop enterprise computing solutions to meet business requirements
		LO4	Be able to review the enterprise computing solution with stakeholders
<b>CC</b>	Cloud Computing	LO1	Understand the characteristics and context of cloud technology and why it is used
		LO2	Understand the business benefits of cloud services
		LO3	Understand the requirements of cloud services
		LO4	Understand the features of cloud storage
		LO5	Understand the deployment requirements for cloud-based services for organisations
		LO6	Know regulatory issues that impact cloud technology
		LO7	Know about impact, risks and security issues related to cloud technology

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