ITEC871
Information Systems Design and Management
S2 Evening 2016
Dept of Computing

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**General Information**

<table>
<thead>
<tr>
<th>Unit convenor and teaching staff</th>
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<tbody>
<tr>
<td>Ian Krycer</td>
</tr>
<tr>
<td><a href="mailto:ian.krycer@mq.edu.au">ian.krycer@mq.edu.au</a></td>
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<table>
<thead>
<tr>
<th>Credit points</th>
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<tr>
<th>Prerequisites</th>
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<td>Admission to MIT</td>
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<th>Corequisites</th>
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<tr>
<th>Co-badged status</th>
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<tr>
<td>COMP771</td>
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**Unit description**

This unit focuses on enterprise management information systems and the technologies used in their design, implementation and maintenance. The alignment of information systems with business strategy and the socio-technical aspects of systems development are explored. Systems discussed include ERP, CRM, Business Intelligence and Groupware. The nexus between social media, cloud computing, mobile devices and big data is considered. A case study analysing the business rationale for an enterprise systems project is conducted.

**Important Academic Dates**

Information about important academic dates including deadlines for withdrawing from units are available at [http://students.mq.edu.au/student_admin/enrolmentguide/academicdates/](http://students.mq.edu.au/student_admin/enrolmentguide/academicdates/)

**Learning Outcomes**

1. Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.

2. Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.

3. Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies.

4. Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.
## Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
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<tbody>
<tr>
<td>Watson Analytics</td>
<td>10%</td>
<td>24/8/16</td>
</tr>
<tr>
<td>ERP Analysis</td>
<td>10%</td>
<td>7/9/16</td>
</tr>
<tr>
<td>Strategic IT Initiatives</td>
<td>20%</td>
<td>2/11/16</td>
</tr>
<tr>
<td>Final Exam</td>
<td>60%</td>
<td>Weeks 14 to 15</td>
</tr>
</tbody>
</table>

### Watson Analytics

**Due:** 24/8/16  
**Weighting:** 10%

This is an individual assignment using IBM's cloud based machine learning platform called Watson. Students choose from a series of given data sets to analyse using Watson. A detailed graphic representation of the data is critically evaluated.

This Assessment Task relates to the following Learning Outcomes:

- Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.
- Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.
- Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies.
- Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.

### ERP Analysis

**Due:** 7/9/16  
**Weighting:** 10%

This is an individual assignment which considers a detailed real world case study about a failed ERP implementation and provides guidance based on course material on how this company should now proceed. This real company in Taiwan failed with their first wave ERP upgrade. Students are to identify the reasons for this failure and consider a series of different go forward strategies based on the latest available technology.
This Assessment Task relates to the following Learning Outcomes:

- Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.
- Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.
- Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies.
- Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.

**Strategic IT Initiatives**

Due: 2/11/16
Weighting: 20%

This is a group assignment. Students start with a contemporary IT major initiative e.g. ERP upgrade, BI, CRM, B2Bi, SCM, Groupware or Web 2.0. Then, a suitable company is selected and a high level business plan is submitted for the proposal identifying the business context, expected business benefits, a possible technical solution and major risks. Each student is allocated a segment of the report. One deliverable is the group wiki for the report and the second deliverable is an individual presentation on the component that the student was allocated. Each of these two deliverables counts towards 10% of the final grade.

This Assessment Task relates to the following Learning Outcomes:

- Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.
- Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.
- Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies.
- Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.
Final Exam

Due: **Weeks 14 to 15**
Weighting: **60%**

Final Examination. This is a closed book exam with short and long answer questions based on the lecture and reference material presented throughout the course. The questions vary in difficulty.

This Assessment Task relates to the following Learning Outcomes:

- Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.
- Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.
- Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies.
- Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.

**Delivery and Resources**

**Recommended Texts**

The following text is recommended, especially for students without an extensive IT background:

*K. C. Laudon and J. P. Laudon “Management Information Systems: Managing The Digital Firm” 14th Edition, Pearson, 2015.* This book is available from the University Co-op Bookstore. If unsure about the value of this text, I suggest you first borrow a copy from the library and make your own assessment. I will be referencing the 14th and most up to date edition, however, earlier editions are quite similar.

The following books are suggested as recommended reading. Copies of these books are available from the library.

Sumner, M, “Enterprise Resource Planning” Prentice Hall, 2005


Lectures will list appropriate Web based references and further reading for some of the rapidly evolving technologies discussed in this course. These additional references will be available for download through the class website.
Unit guide  ITEC871 Information Systems Design and Management

Unit Material

A student folder with all the lecture notes and electronic references will be available for download through the class website on iLearn at: https://ilearn.mq.edu.au/

Late assignments: All late assignments will attract the penalty of having the maximum possible mark reduced by 10% per day late, including weekends. In other words, this means that an assignment that is ten elapsed days late can only attract zero marks, even if it is perfect.

All assignments are to be submitted through the iLearn class website.

Participation is a Course Requirement: It is expected that students attend at least 8 out of 12 of the scheduled sessions. If you cannot meet this requirement, a formal disruption request should be filed at https://ask.mq.edu.au.

Unit Schedule

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<th>Topic</th>
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<td>Course Introduction</td>
<td>IBM, Gartner, Forrester, DMS</td>
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<td>Big Data Analytics</td>
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<td>ERP Implementation Issues</td>
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<td></td>
<td>ERP Modules: Accounting and Finance</td>
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<td>2</td>
<td>Analytics for Industrial Applications</td>
<td>IBM</td>
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<td>IBM Watson Analytics Hand out Assignment One (Individual Assignment) ‘Watson Analytics’</td>
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<td>3</td>
<td>ERP Implementation Issues</td>
<td>Sumner</td>
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<td>ERP Modules: Sales and Marketing</td>
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<td>ERP Modules: Accounting and Finance</td>
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<td>4</td>
<td>ERP Modules: Production and Materials</td>
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<td></td>
<td>ERP Modules: Human Resources</td>
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<td></td>
<td>Postmodern ERP Strategies</td>
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<td></td>
<td><em>Assignment One Due by 5:00 pm on 24/8/16 Hand out</em></td>
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<td>Assignment Two “ERP Analysis”</td>
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<td>5</td>
<td>Succeeding with SAP</td>
<td>Michael Hammer</td>
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<td></td>
<td>Mobile Technology Trends</td>
<td>Andressen</td>
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<td></td>
<td>The Sharing Economy</td>
<td>Horowitz</td>
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<td>6</td>
<td>Business Value of Information Systems</td>
<td>Gartner</td>
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<td>Financial Metrics for IS Investments</td>
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<td>Strategic Alignment</td>
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<td>Venkatraman</td>
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<td><em>Assignment Two Due by 5:00 pm on 7/9/16</em></td>
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<td><em>Hand out Group Assignment “Strategic IT Initiatives”</em></td>
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<td>7</td>
<td>SAP (Guest speaker)</td>
<td>Nicholas Carr</td>
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<td>eLearning</td>
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<td>Customer Relationship Management (CRM)</td>
<td>Laudon &amp; Laudon</td>
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<td></td>
<td>Social CRM Multichannel Marketing</td>
<td>Gartner</td>
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<td>Hubspot</td>
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<td>Gartner</td>
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<td>9</td>
<td>Microsoft Applications (Guest Speaker)</td>
<td>GAFAnomics (Google, Apple, Facebook, Amazon)</td>
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<td>10</td>
<td>Social CRM (Oracle Guest Speakers)</td>
<td>Gartner, IDC and Bluewolf</td>
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<td>Enterprise SaaS (Alfresco, Workday, Service Now, Salesforce)</td>
<td>My Life in 2030</td>
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<td>11</td>
<td>Group Assignment Tutorial</td>
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<td>Tutorial and Revision</td>
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**Policies and Procedures**

Macquarie University policies and procedures are accessible from [Policy Central](http://mq.edu.au/policy/docs/academic_honesty/policy.html). Students should be aware of the following policies in particular with regard to Learning and Teaching:


In addition, a number of other policies can be found in the Learning and Teaching Category of Policy Central.

**Student Code of Conduct**

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: [https://students.mq.edu.au/support/student_conduct/](https://students.mq.edu.au/support/student_conduct/)

**Results**

Results shown in iLearn, or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit ask.mq.edu.au.

**Student Support**

Macquarie University provides a range of support services for students. For details, visit [http://students.mq.edu.au/support/](http://students.mq.edu.au/support/)

**Learning Skills**

Learning Skills ([mq.edu.au/learningskills](http://mq.edu.au/learningskills)) provides academic writing resources and study strategies to improve your marks and take control of your study.

- Workshops
- StudyWise
- Academic Integrity Module for Students
- Ask a Learning Adviser

**Student Enquiry Service**

For all student enquiries, visit Student Connect at ask.mq.edu.au

**Equity Support**

Students with a disability are encouraged to contact the Disability Service who can provide appropriate help with any issues that arise during their studies.

**IT Help**

For help with University computer systems and technology, visit [http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/](http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/).
When using the University's IT, you must adhere to the Acceptable Use of IT Resources Policy. The policy applies to all who connect to the MQ network including students.

**Graduate Capabilities**

**PG - Discipline Knowledge and Skills**

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

**Learning outcomes**

- Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.
- Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.
- Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies.
- Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.

**Assessment tasks**

- Watson Analytics
- ERP Analysis
- Strategic IT Initiatives
- Final Exam

**PG - Critical, Analytical and Integrative Thinking**

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

**Learning outcomes**

- Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.
• Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.
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• Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.

Assessment tasks
• Watson Analytics
• ERP Analysis
• Strategic IT Initiatives
• Final Exam

PG - Research and Problem Solving Capability
Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

Learning outcomes
• Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.
• Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.
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• Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.

Assessment tasks
• Watson Analytics
• ERP Analysis
• Strategic IT Initiatives
PG - Effective Communication

Our postgraduates will be able to communicate effectively and convey their views to different social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:

**Learning outcomes**

- Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.
- Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.
- Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies.
- Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.

**Assessment tasks**

- Watson Analytics
- ERP Analysis
- Strategic IT Initiatives
- Final Exam

PG - Engaged and Responsible, Active and Ethical Citizens

Our postgraduates will be ethically aware and capable of confident transformative action in relation to their professional responsibilities and the wider community. They will have a sense of connectedness with others and country and have a sense of mutual obligation. They will be able to appreciate the impact of their professional roles for social justice and inclusion related to national and global issues.

This graduate capability is supported by:

**Learning outcomes**

- Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.
• Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.

• Use your understanding of the nexus of mobile, cloud, social and big data trends to an enterprise IT strategic plan to generate opportunities from these developing technologies.

• Critically evaluate contemporary and emerging enterprise IT technologies to establish a watching brief for an IT department within a major enterprise.

Assessment tasks

• Watson Analytics
• ERP Analysis
• Strategic IT Initiatives
• Final Exam

PG - Capable of Professional and Personal Judgment and Initiative

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

Learning outcomes

• Analyse the business value of information systems to assist in the justification of an IT investment based on the delivery of specific business benefits.

• Analyse the functionality and business context for major enterprise systems including ERP, BI, CRM and Enterprise 2.0, and recommend appropriate investments based on the specific business context.

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Assessment tasks

• Watson Analytics
• ERP Analysis
• Strategic IT Initiatives
Standards

Your standards, namely HD, D, CR, P summarize as many different levels of achievement. Each standard is precisely defined to help students know what kind of performance is expected to deserve a certain mark. The standards corresponding to the learning outcomes are given below:

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<thead>
<tr>
<th>Grade</th>
<th>LO 1 and LO2</th>
<th>LO 3 and LO4</th>
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<tbody>
<tr>
<td><strong>HD</strong></td>
<td>Apply techniques and knowledge in new contexts, show breadth and depth of understanding of business objectives, context, systems analysis and design. Fully capable support major strategic initiatives with a sound business case and technical solution.</td>
<td>A sound grounding on how major strategic IT systems are managed. Show breadth and depth of understandings on issues in the management of IT systems, including: change management, configuration management and planning, People management, hardware asset management and capacity planning and availability. Able to apply these techniques and knowledge in new contexts.</td>
</tr>
<tr>
<td><strong>D</strong></td>
<td>Apply techniques and knowledge in some new contexts, show breadth and depth of understanding across most of the topics including: business objectives, context, systems analysis and design. Largely capable to support major strategic initiatives with a sound business case and technical solution.</td>
<td>A sound grounding in most topics related to how major strategic IT systems are managed. Show breadth and depth of understandings on most issues in the management of IT systems, including: change management, configuration management and planning, People management, hardware asset management and capacity planning and availability. Able to apply these techniques and knowledge in some new contexts.</td>
</tr>
<tr>
<td>CR</td>
<td>Show breadth of understanding across most of the topics including: business objectives, context, systems analysis and design. Some capability to support major strategic initiatives with a sound business case and technical solution.</td>
<td>Understands some aspects of how major strategic IT systems are managed. Show breadth of understandings on most issues in the management of IT systems, including: change management, configuration management and planning, People management, hardware asset management and capacity planning and availability.</td>
</tr>
<tr>
<td>P</td>
<td>Can reproduce definitions and ideas, show some breadth of understanding of the topics including: business objectives, context, systems analysis and design. Some capability to support major strategic initiatives with a sound business case and technical solution.</td>
<td>Can reproduce some definitions and ideas, show some breadth on issues in the management of IT systems, including: change management, configuration management and planning, People management, hardware asset management and capacity planning and availability.</td>
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Grading

At the end of the semester, you will receive a grade that reflects your achievement in the unit

- **Fail (F):** does not provide evidence of attainment of all learning outcomes. There is missing or partial or superficial or faulty understanding and application of the fundamental concepts in the field of study; and incomplete, confusing or lacking communication of ideas in ways that give little attention to the conventions of the discipline.

- **Pass (P):** provides sufficient evidence of the achievement of learning outcomes. There is demonstration of understanding and application of fundamental concepts of the field of study; and communication of information and ideas adequately in terms of the conventions of the discipline. The learning attainment is considered satisfactory or adequate or competent or capable in relation to the specified outcomes.
• **Credit (Cr)**: provides evidence of learning that goes beyond replication of content knowledge or skills relevant to the learning outcomes. There is demonstration of substantial understanding of fundamental concepts in the field of study and the ability to apply these concepts in a variety of contexts; plus communication of ideas fluently and clearly in terms of the conventions of the discipline.

• **Distinction (D)**: provides evidence of integration and evaluation of critical ideas, principles and theories, distinctive insight and ability in applying relevant skills and concepts in relation to learning outcomes. There is demonstration of frequent originality in defining and analysing issues or problems and providing solutions; and the use of means of communication appropriate to the discipline and the audience.

• **High Distinction (HD)**: provides consistent evidence of deep and critical understanding in relation to the learning outcomes. There is substantial originality and insight in identifying, generating and communicating competing arguments, perspectives or problem solving approaches; critical evaluation of problems, their solutions and their implications; creativity in application.

In this unit, your final grade depends on your performance in each part of the assessment. For each task, you receive a mark that combines your standard of performance regarding each learning outcome assessed by this task. Then the different component marks are added up to determine your total mark out of 100. Your grade then depends on this total mark and your overall standards of performance.

**Obtaining a grade higher than a Pass (P) in this unit will require a student to obtain (in addition to the above):**

• the required total number of marks (Credit - 65, Distinction - 75, High Distinction - 85).